Operating instructions

for the system user

Heating system with control unit for constant operation
Vitotronic 100, type GC1B or GC4B

VITOTRONIC 100

Vitotronic 100, GC1B

Vitotronic 100, GC4B

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Please keep safe.

For your safety

Please follow these safety instructions closely to prevent accidents and material losses.

Safety instructions explained

Danger
This symbol warns against the risk of injury.

Please note
This symbol warns against the risk of material losses and environmental pollution.

Note
Details identified by the word "Note" contain additional information.

Target group

These operating instructions are for the heating system user.
This unit is **not** designed to be used by persons (including children) with limited bodily, sensory or mental capacities, or lacking experience and/or lacking knowledge, unless they are supervised by a person responsible for their safety, or have received instructions from such a person as to how to use the unit.

Please note
Children should be supervised. Ensure that children do not play with the unit.

Danger
Incorrectly executed work on the heating system can lead to life-threatening accidents.
- Work on gas appliances must only be carried out by a registered gas fitter.
- Work on electrical equipment must only be carried out by a qualified electrician.

If you smell gas

Danger
Escaping gas can lead to explosions which may result in serious injury.
- Do not smoke. Prevent naked flames and sparks. Never switch lights or electrical appliances ON or OFF.
- Close the gas shut-off valve.
- Open windows and doors.
- Remove all people from the danger zone.
- Notify your gas or electricity supplier and your heating contractor from outside the building.
- Shut off the electricity supply to the building from a safe place (outside the building).

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For your safety (cont.)

If you smell flue gas

Danger
Flue gas can lead to life-threatening poisoning.
- Shut down the heating system.
- Ventilate the boiler room.
- Close all doors in the living space.

In case of fire

Danger
Fire creates the risk of burning and explosions.
- Shut down the heating system.
- Close the shut-off valves of the fuel lines.
- Use a tested fire extinguisher, class ABC.

Boiler room requirements

Please note
Incorrect ambient conditions can lead to damage to the heating system and put the safe operation at risk.
- Ensure ambient temperatures above 0 ºC and below 35 ºC.
- Prevent air contamination by halogenated hydrocarbons (e.g. as contained in paints, solvents or cleaning fluids) and excessive dust (e.g. through grinding/polishing work).
- Avoid continuously high humidity levels (e.g. through frequent drying of washing).
- Never close existing ventilation apertures.

Ancillary components, spare and wearing parts

Please note
Components that are not tested with the heating system may lead to damage to the heating system, or may affect their various functions.
Installation or replacement work must only be carried out by qualified personnel.

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Commissioning

The commissioning and matching of the control unit to local conditions and building characteristics, as well as instructing the user in the operation of the system, must be carried out by your heating contractor.

As the user of new combustion equipment, you may be obliged to notify your local flue gas inspector of the installation [check local regulations]. Your local flue gas inspector will also inform you [where appropriate] about work he may be required to perform on your combustion equipment (e.g. regular checks, cleaning).

Your system is preset at the factory

The control unit is factory-set to "" for central heating and DHW heating. Your heating system is therefore ready for use:

Central heating

- The rooms are heated in accordance with the settings on your control unit and room temperature control unit.
- Your heating contractor can make further settings for you during commissioning.
  You can change any settings individually at any time to suit your requirements (see chapter "Central heating").

DHW heating

- The DHW is heated up to 50 °C.
- Your heating contractor can make further settings for you during commissioning.
  You can change any settings individually at any time to suit your requirements (see chapter "DHW heating").

Frost protection

- Your boiler and DHW cylinder are protected against frost.

Power failure

- All data is saved if there is a power failure.

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Special considerations for multi boiler systems

The Vitotronic 100 can be used in the following systems:
- Single boiler systems
- Multi boiler systems with a Viessmann cascade control unit
- Multi boiler systems of a higher third party control unit

In multi boiler systems (systems with several boilers), each boiler is equipped with its own control unit. These control units are regulated by the higher control unit. Make the required settings (e.g. set room temperature) at the higher control unit.

DHW heating can **only** be selected at the higher control unit.

Operating instructions of the higher control unit

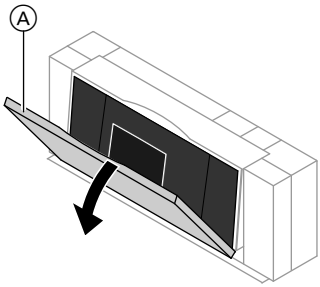
Note
*These operating instructions do **not** apply in conjunction with multi boiler systems.*

Terminology

To provide you with a better understanding of the functions of your control unit, the appendix contains the chapter "Terminology" (see page 28).

Controls

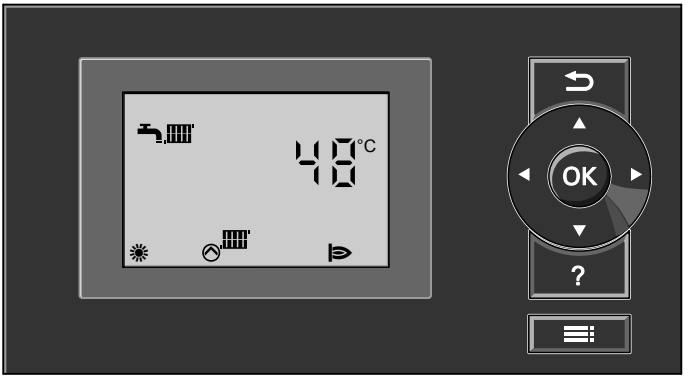
Opening the control unit



The programming unit is located behind the cover flap. Brief operating instructions can be found on the back of the cover flap.
To open, pull the flap from the top edge forward.

Ⓐ Cover flap

Programming unit



- ⮌ Takes you to the previous step in the menu or cancels a setting that has been started.
- ⌖ Cursor keys
  To scroll in the menu or to set values.
- **OK** Confirms your selection or saves the setting.
- **?** No function.
- ☰ Enables you to call up the menu for settings and scanning.

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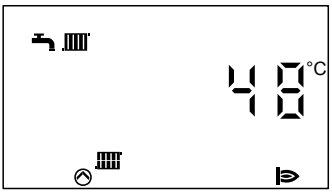
How to use the controls

Standard display



Press ☰.
This takes you to the menu for settings and scanning.

Symbols on the display

These symbols are not always displayed, but appear subject to the system version and the operating state. Flashing displays indicate that modifications can be made.

Menu
- Settings for heating
- Selecting the DHW temperature
- Scanning information
- Further adjustments
- Emissions test mode

Heating program
- Standby mode with frost protection monitoring
- DHW heating only
- DHW and central heating

Messages
- Service message
- ⚠ Fault message

Displays
- Temperature
- Circulation pump at output 20 running
- Cylinder primary pump running
- In conjunction with a solar thermal system:
  Solar circuit pump running
- Burner in operation
- Factory settings

Starting the heating system

Controls with open hinged cover flap

For cover flap, see page 8.

Type GC1B

Ⓐ ON indicator (green)
Ⓑ Fault indicator (red)
Ⓒ Emissions test switch
(only for service purposes)
Ⓓ TEST key
(only for service purposes)
Ⓔ Excess temperature reset
Ⓕ ON/OFF switch
Ⓖ Temperature controller
Ⓗ Fuses

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Starting the heating system (cont.)

Type GC4B

Ⓐ ON indicator (green)
Ⓑ Fault indicator (red)
Ⓒ Emissions test switch (only for service purposes)
Ⓕ ON/OFF switch
Ⓗ Fuses

Ask your heating contractor about the following:
- Boiler and relevant control unit type
- Level of the required system pressure
- Position of the pressure gauge, shut-off valves, gas shut-off valve, ventilation apertures

1. Check the heating system pressure at the pressure gauge. If the pressure of the heating system is too low, top up the water or notify your heating contractor.

2. Open the shut-off valves in the oil lines (at the tank and filter) or open the gas shut-off valve.

3. Switch ON the power supply, e.g. at a separate MCB/fuse or a mains isolator.

4. Switch ON the ON/OFF switch (see pages 10 and 11).
   After a short time, the standard display appears (see page 9) and the green ON indicator illuminates. The heating system is now ready for operation.

Shutting down the heating system

With frost protection monitoring

Select the heating program **"⏻"** for standby mode (frost protection monitoring).

Press the following keys:

1. ☰ for settings; **"🔥"** flashes.

2. OK to confirm; **"⏻🚿🔥"** flashes.

3. OK to confirm; the currently selected heating program flashes.

4. ◄ until **"⏻"** flashes.

5. OK to confirm.

- No central heating.
- No DHW heating.
- Frost protection for the boiler and the DHW cylinder is enabled.

Note
The circulation pumps are briefly started every 24 hours to prevent them from seizing up.

Terminating heating program "⏻"

Select another heating program.

Without frost protection monitoring (shutdown)

1. Switch OFF the ON/OFF switch (see pages 10 and 11).

2. Close the shut-off valves in the oil lines (at the tank and filter) or close the gas shut-off valve.

3. Isolate the heating system from its main power supply, e.g. at a separate MCB/fuse or a mains isolator.

4. Where outside temperatures of below 3 °C are anticipated, please take suitable measures to protect the heating system against frost. If necessary, contact your heating contractor.

Information on a prolonged shutdown
Circulation pumps may seize up as they are not supplied with power.

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Selecting the set boiler water temperature

Select a sufficiently high set boiler water temperature (heating flow temperature) so that the required room temperature can be achieved.
Factory setting: 75 °C

Press the following keys:

1. ☰ for settings; "🔥" flashes.

2. OK to confirm; "⏻🚿🔥" flashes.

3. ► for set boiler water temperature; "🌡" flashes.

4. OK to confirm; the selected temperature value flashes.

5. ▲/▼ for the required set boiler water temperature.

6. OK to confirm; the new temperature value is saved.

Setting the heating program (central heating)

Factory setting: "🚿🔥" for central heating and DHW heating (winter mode).

Press the following keys:

1. ☰ for settings; "🔥" flashes.

2. OK to confirm; "⏻🚿🔥" flashes.

3. OK to confirm.

4. ►/◄ until "🚿🔥" flashes.

5. OK to confirm; the rooms are heated and DHW is provided.

Stopping the central heating

Press the following keys:

1. ☰ for settings; "🔥" flashes.

2. OK to confirm; "⏻🚿🔥" flashes.

3. OK to confirm; the currently selected heating program flashes.

4. ►/◄ until "🚿" flashes (summer mode, no central heating)
or
until "⏻" flashes (frost protection monitoring).

5. OK to confirm.

Required settings (DHW heating)

If you want DHW heating, check the following points:

- Have you set the required DHW temperature?
  For settings, see the next chapter.
- Have you set the correct heating program?
  For settings, see page 14.

Setting the DHW temperature

Factory setting: 50 °C

Press the following keys:

1. ☰ for settings; "🔥" flashes.

2. ▶ until "🚿" flashes.

3. OK to confirm; temperature value flashes.

4. ▲/▼ for required DHW temperature.

5. OK to confirm; the new temperature value is saved.

Setting the heating program (DHW heating)

Factory setting: "🚿🔥" for central heating and DHW heating (winter mode).

Press the following keys:

1. ☰ for settings; "🔥" flashes.

2. OK to confirm; "⏻🚿🔥" flashes.

3. OK to confirm; the currently selected heating program flashes.

4. ▶/◀ until "🚿" flashes for DHW heating (summer mode, no central heating)
or
until "🚿🔥" flashes for central heating and DHW heating (winter mode).

5. OK to confirm; the selected heating program is activated.

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Stopping DHW heating

You do not want DHW, but do want to heat the rooms.

Press the following keys:

1. ☰ for settings; "🔥" flashes.

2. OK to confirm; "⏻🚿🔥" flashes.

3. OK to confirm; the currently selected heating program flashes.

4. ▶/◀ until "🚿🔥" flashes.

5. OK to confirm.

6. ☰ for settings; "🔥" flashes.

7. ▶ until "🚿" flashes.

8. OK to confirm; temperature value flashes.

9. ▼ until 10 °C is displayed.

10. OK to confirm; the new temperature value is saved.

You do not want to have DHW or heat your rooms.

Press the following keys:

1. ☰ for settings; "🔥" flashes.

2. OK to confirm; "⏻🚿🔥" flashes.

3. OK to confirm; the currently selected heating program flashes.

4. ◀ until "⏻" flashes.

5. OK to confirm; DHW heating and central heating are stopped, frost protection monitoring is activated (standby mode).

Setting the temperature unit (°C/°F)

Factory setting: °C

Press the following keys:

1. ☰ for settings; "▥" flashes.

2. ► until "⚙" flashes.

3. OK to confirm; "⊣" flashes.

4. ▲/▼ for required temperature unit (**"°C"** or **"°F"**).

5. OK to confirm; the new temperature unit is saved.

Restoring factory settings

You can simultaneously reset all changed values to the factory settings.

Press the following keys:

1. ☰ for settings; "▥" flashes.

2. ► until "⚙" flashes.

3. OK to confirm; "⊣" flashes.

4. OK to confirm; the factory setting is reinstated.

Factory settings:
- Heating program: "🚿▥"
- Temperature unit: °C
- Set boiler water temperature: 75 °C
- Set DHW temperature: 50 °C

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Scanning information

Subject to the connected components and settings made, you can scan current temperatures and operating conditions.

Press the following keys:

1. ☰ for settings; "▦" flashes.

2. ▶ until "i" flashes.

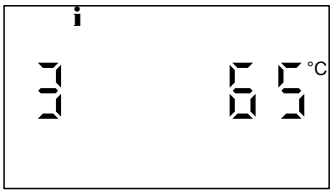
3. OK to confirm.

4. ▲/▼ for the required information.

5. OK to confirm; if you want to reset the value to "0" (see following table), "⊣⊢" flashes.

6. OK to confirm; the value is reset.

Example:
The number "3" is displayed, indicating the current boiler water temperature.



Note
The scan mode terminates automatically after 30 min or if you press ⮌.

The information appears in the following sequence:

Display			Explanation	Notes
0	1		LON subscriber number	Control unit has subscriber no. 1.
2	107	°C	Flue gas temperature	Displayed only if a flue gas temperature sensor is connected.
3	65	°C	Boiler water temperature	—
4	58	°C	Temperature buffer cylinder	Displayed only if a buffer cylinder is connected.
5	50	°C	DHW temperature (only in conjunction with **one** cylinder temperature sensor)	Displayed only if a DHW cylinder is connected.
51	45	°C	DHW temperature, cylinder temperature sensor 1	Displayed only in conjunction with **two** cylinder temperature sensors.
52	45	°C	DHW temperature, cylinder temperature sensor 2	Displayed only in conjunction with **two** cylinder temperature sensors.
5□	45	°C	DHW temperature with solar operation	Displayed only if a solar thermal system is connected.

Scanning information (cont.)

Display			Explanation	Notes
53	50	°C	Temperature sensor [7]	Displayed only if the Viessmann solar control module is available and a third temperature sensor has been connected.
54	50	°C	Temperature sensor [10]	Displayed only if the Viessmann solar control module is available and a fourth temperature sensor has been connected.
5⊏	70	°C	Collector temperature	Display only if a solar thermal system is connected.
6	55	°C	Temperature sensor [17] [A]	Only if a sensor is connected.
7	55	°C	Temperature sensor [17] [B]	Only if a sensor is connected.
①	2 6 3 5 7 2	h	Hours run burner single stage, stage 1 or modulating	The value can be reset to "0" with "⏭".
②	2 6 3 5 7 2	h	Hours run burner stage 2	The value can be reset to "0" with "⏭".
③	0 1 3.5 7 8		Burner starts	The number of burner starts can be reset to "0" with "⏭".
④	0 0 1 2 2 5		Fuel consumption	The value can be reset to "0" with "⏭".
⑤	0 0 1 4 1 7	h	Solar circuit pump hours run	Displayed only if a Viessmann solar control module is installed. The value can be reset to "0" with "⏭".
⑥	0 0 1 4 2 5		Pump starts, solar circuit pump	Displayed only if a Viessmann solar control module is installed. The value can be reset to "0" with "⏭".
⑦	0 0 0 5 0 6	h	Hours run, output 22	Displayed only if a Viessmann solar control module is installed. The value can be reset to "0" with "⏭".
⑧	0 0 0 5 0 6		Starts output 22	Displayed only if a Viessmann solar control module is installed. The value can be reset to "0" with "⏭".

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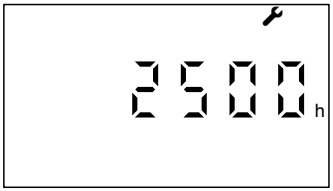
Scanning information (cont.)

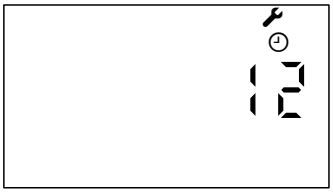
Display	Explanation	Notes
0 0 2 8 5 0 ⑨	Solar yield in kWh	Displayed only if a Viessmann solar control module is installed. The value can be reset to "0" with "⊣⊢".

Scanning the service messages

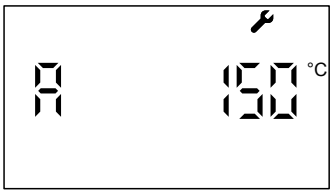
If your heating system is due for a service, the symbol 🔧 flashes on the display, and the following displays appear.
Your heating contractor can select when a service should be carried out:
After a certain number of burner hours run, e.g. 2500 hours.



After a certain time, e.g. 12 months.



When a certain flue gas temperature is reached, e.g. 150 °C.



Notify your local heating contractor and acknowledge the service message by pressing **OK**.

Note
If the service can only be carried out at a later point in time, the service message will reappear after 7 days.

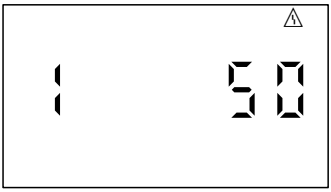
Calling up an acknowledged service message

Press **OK** for approx. 4 s.

Scanning fault messages

If any faults have occurred in your heating system, the symbol ⚠ flashes on the display and the fault code is shown. The red fault indicator also flashes (see page 10).

Example:
Fault code shown: "50"



1. Notify your heating contractor of the fault code. This enables the heating contractor to be better prepared for the service call and may save additional travelling costs.

2. Acknowledge the fault message with **OK**. The symbol ⚠ no longer flashes.

   Note
   - *If you have connected up signalling equipment (e.g. a buzzer) for fault messages, this is deactivated when the fault message is acknowledged.*
   - *If the fault can only be fixed at a later point in time, the fault message will reappear the following day.*

Calling up an acknowledged fault message

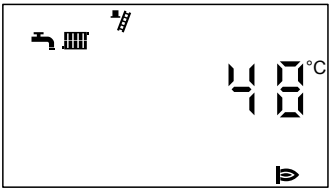
Press **OK** for approx. 4 s.

Note
If there are several fault messages, you can scan these in sequence by pressing ▼/▲.

Emissions test mode

Emissions test mode for testing flue gas with boiler water temperature raised briefly. This test mode should only be activated by your flue gas inspector during the annual inspection.

Switch the emissions test switch (see page 10 and 11) to .
The display will then show the following:



The following functions are activated:
- The burner is switched ON (the display shows symbol).

  Note
  Burner start-up can be delayed, e.g. through fuel oil preheating.

- Pumps are started.
- The thermostat regulates the boiler water temperature.

Ending emissions test mode

Set the emissions test switch to position
or
Close the flap (see page 8).

Rooms are too cold

Cause	Remedy
The heating system is off.	■ Switch ON the ON/OFF switch (see pages 10 and 11). ■ Switch ON the mains isolator, if installed (outside the boiler room). ■ Reset the MCB in the power distribution board (main domestic MCB).
Control unit incorrectly adjusted.	Check settings and correct if required: ■ "" must be selected (see page 13). ■ Set boiler water temperature (see page 13).
Only when operating with DHW heating: DHW priority is enabled ("" is displayed).	Wait until the DHW cylinder has been heated up.
No fuel.	For LPG/oil: Check the fuel reserves and re-order if required. With natural gas: Open the gas shut-off valve. If necessary, check with your gas supply utility.
The ⚠ symbol is shown on the display.	Scan the type of fault, make a note of the fault code and acknowledge the message (see page 20). If necessary, notify your heating contractor.

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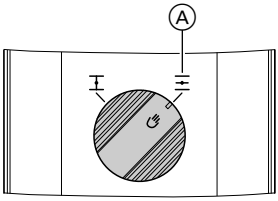
Rooms are too cold (cont.)

Cause	Remedy
Burner start faulty. The ⚠ symbol is displayed and the red fault indicator on the burner is illuminated.	Press the reset button on the burner hood or on the boiler front panel. If there is no reset button, switch the ON/OFF switch (see pages 10 and 11) first OFF and then ON again. Contact your local heating contractor if the burner still fails to start.
Vitoair draught stabiliser faulty.	Contact your local heating contractor. Press the rotary selector on the motor and rotate it past this position Ⓐ as far as it will go. 

Rooms are too hot

Cause	Remedy
Control unit is incorrectly adjusted.	Check settings and correct if required: ■ Set boiler water temperature (see page 13).
The ⚠ symbol is shown on the display.	Scan the type of fault, make a note of the fault code and acknowledge the message (see page 20). If necessary, notify your heating contractor.
Emissions test switch is set to .	Close the flap (see page 8).

There is no hot water

Cause	Remedy
The heating system is off.	■ Switch ON the ON/OFF switch (see pages 10 and 11). ■ Switch ON the mains isolator, if installed (outside the boiler room). ■ Reset the MCB in the power distribution board (main domestic MCB).
Control unit incorrectly adjusted.	Check settings and correct if required: ■ DHW heating must be enabled (see page 14). ■ Set DHW temperature (see page 14).
No fuel.	For LPG/oil: Check the fuel reserves and re-order if required. With natural gas: Open the gas shut-off valve. If necessary, check with your gas supply utility.
The ⚠ symbol is shown on the display.	Scan the type of fault, make a note of the fault code and acknowledge the message (see page 20). If necessary, notify your heating contractor.

The DHW is too hot

Cause	Remedy
The control unit is incorrectly adjusted.	Check and correct the DHW temperature if required (see page 14).
DHW heating is carried out by the solar thermal system.	Check and correct settings, if required, at the solar control unit. Separate operating instructions
Emissions test switch is set to .	Close the flap (see page 8).

"⚠" flashes on the display

Cause	Remedy
Heating system fault.	Scan the type of fault, make a note of the fault code and acknowledge the message (see page 20). If necessary, notify your heating contractor.

"🔧" flashes on the display

Cause	Remedy
The time for a service, as specified by your heating contractor, has arrived.	Notify your local heating contractor and acknowledge the service message with **OK** (see page 19).

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Maintenance

Cleaning

All equipment can be cleaned with a commercially available domestic cleaning agent (non-scouring). Clean the surface of the programming unit with a microfibre cloth.

Inspection and maintenance

Inspection and maintenance of your heating system is prescribed by the Energy Savings Order and DIN 4755, DVGW-TRGI 2008 and DIN 1988-8. Regular maintenance ensures trouble-free, energy efficient, environmentally responsible and safe heating. Your heating system must be serviced by an authorised contractor at least every 2 years. For this, we advise you to arrange an inspection and maintenance contract with your local heating contractor.

Boiler

Increasing boiler contamination raises the flue gas temperature and thereby increases energy losses. For that reason, all boilers should be cleaned annually.

DHW cylinder (if installed)

The DIN 1988-8 and EN 806 specify that maintenance and cleaning should be carried out no later than two years after commissioning and thereafter as required.
Only a qualified heating contractor should clean the inside of a DHW cylinder and the DHW connections.

Refill any water treatment equipment (e.g. a lock or injection system) in good time, if such equipment is installed in the cold water supply of the DHW cylinder. Observe the manufacturer's instructions.
Additionally for a Vitocell 100:
We recommend that the correct function of the sacrificial anode is checked annually by your heating contractor.
The anode function can be checked without interrupting the system operation. The heating contractor will check the earth current with an anode tester.

Safety valve (DHW cylinder)

The safety valve function should be checked every six months by venting, either by the system user or the local heating contractor. The valve seat may become contaminated (see the valve manufacturer's instructions).

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Maintenance (cont.)

Potable water filter (if installed)

To maintain high hygienic standards, proceed as follows:

- Replace filter element on non-back flushing filters every six months (visual inspection every two months).
- On back flushing filters, back flush every two months.

Terminology

Constant temperature operation

In constant temperature operation, the heating water is constantly heated to the selected boiler water temperature.

Heating program

The heating program determines whether you heat your rooms and DHW, or only heat DHW, or whether you shut down your heating system with frost protection monitoring.

You can select the following heating programs:

- "" The rooms are heated and DHW is provided (winter mode).
- "" DHW is provided but there is no central heating (summer mode).
- "" Frost protection for the boiler and DHW cylinder is active, no central heating, no DHW heating (standby mode).

Note

A heating program for central heating without DHW heating is not available. If rooms are to be heated, hot water is generally also required (winter mode).
If you still only want central heating, select the "" heating program and set the DHW temperature to 10 °C (see page 15). This means that you will not heat DHW unnecessarily but the DHW cylinder is protected against frost.

Heating circuit

A heating circuit is a sealed circuit between the boiler and radiators, in which the heating water circulates.

Heating circuit pump

Circulation pump for the circulation of the heating water in the heating circuit.

Actual temperature

Current temperature at the time of the scan; e.g. actual DHW temperature.

Boiler water temperature

See "Constant temperature operation".

Open flue operation

The combustion air is drawn from the room where the boiler is installed.

Balanced flue operation

The combustion air is drawn from outside the building.

Safety valve

A safety device that must be installed by your heating contractor in the cold water pipe. The safety valve opens automatically to prevent excess pressure in the DHW cylinder.

Set temperature

Default temperature that should be reached; e.g. set DHW temperature.

Terminology (cont.)

Summer mode

Heating program "".
At warmer times of the year, i.e. when the rooms do not have to be heated, you can stop heating mode. The boiler remains enabled for DHW heating.

Cylinder primary pump

Circulation pump for heating the DHW in the DHW cylinder.

Drinking water filter

A device that removes solids from the water. The drinking water filter is installed in the cold water pipe upstream of the DHW cylinder or the instantaneous water heater.

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Applicability

Serial No.:
7441810 7441811

Your contact

Contact your local contractor if you have any questions regarding the maintenance and repair of your system. You may, for example, find local contractors on the internet under www.viessmann.com.

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